**TASK: Funny Money**

PROBLEM:

You are an operative with the Chace Detective Agency. Carmel San Francisco

and her henchmen have started counterfeiting United States currency as their

latest exploit. On the first day they counterfeited 3 million dollars. As they

expand their operation, they will have twice as much funny money as the day

before. (On the second day they will have twice as much as the first day. On

the third day, they will have twice as much as on the second, etc.) Your job is

to catch the crooks. Good luck.

INSTRUCTIONS:

1. If you catch them on the third day, how much money will they have?

Explain in detail how you arrived at your answer. Show each step.

2. If you catch them on the 6th day, how much money will they have? Show

step-by-step how you arrived at your answer.

3. You will get a $10,000 bonus if you catch them *before* they have 200

million dollars. What is the maximum number of days you have to catch

the criminals and receive your bonus? How do you know that? How much

money did they have?